



Standards Document for Configuring a Software Update Server (SUS) in Kentucky Schools

February 12th, 2003

A KETS Implementation Document

Scope of Document:

The scope of this document is to provide guidance for Kentucky School Districts in the deployment of Microsoft® Software Update Services, a new tool for managing and distributing critical Windows patches that resolve known security vulnerabilities and other stability issues in Microsoft Windows 2000, Windows XP, and Windows Server 2003 operating systems.

Scope of Issue:

In the past Kentucky School Districts have had to check the Windows Update Web site or the Microsoft Security Web site frequently for patches. Then they have to manually download patches that have been made available, test the patches in their environment, and then distribute the patches manually or by using traditional software-distribution tools. SUS solves these problems. SUS provides dynamic updating of critical updates to Windows client computers whether or not they have direct Internet access. Additionally, this technology provides a simple and automatic solution for distributing those updates to your corporate Windows desktops and servers. Additional information about SUS can be found at <http://www.microsoft.com/windowsserver2003/evaluation/demos/sims/sus/viewer.htm>.

Hardware Requirements for SUS Server

Microsoft recommended minimum configuration for a server running Software Update Services is:

1. Pentium III 700 MHz or higher processor.
2. 512 megabytes of RAM.
3. 6 gigabytes (GB) of free hard disk space for setup and security packages.

This recommended configuration is designed for the support of approximately 15,000 clients using one server running SUS. The largest of KETS districts' needs may be greater or in accordance with their individual size.

Please note that future plans may also include this server being used for the Network Associates E-policy Orchestrator product to distribute antivirus updates to district workstations. OET is engaging NAI to develop and engineer this service. Hardware requirements for that deployment have not yet been determined.

Installation of Server Operating System

The district hub SUS server must be installed on Windows 2003 Server Standard Edition to be as secure and robust as possible. The SUS Server must conform to the Private IP Standards of 10.X.<district hub site>.9 and naming standard of E<district number>SUS1.

Example: If domain controller is 10.250.16.50 and district number is 999, then the district hub SUS Server would have an IP address of 10.250.16.9 and a name of E999SUS1.

Installation of Internet Information Services

IIS 6.0 must be installed prior to the installation of the SUS services. The following outlines the necessary steps for installation of IIS on the SUS Server.

Step 1: Click Start, Settings, Control Panel, Add/Remove Programs

Step 2: Click Add/Remove Windows Components

Step 3: Click to highlight Application Server and click Details

Step 4: Click to select Internet Information Services (IIS) **Note: This will automatically select Enable Network COM+ access.**

Step 5: Click OK, Click Next, and insert Windows Server 2003 CD when/if requested

Step 6: Click Finish

Installation of Software Update Server

The following steps detail the necessary steps for installation of the SUS Services.

Step 1: Download the installation program from KDE FTP Site located at <http://ketsftp.k12.ky.us/WindowsServer2003/SUS10SP1.exe> to your SUS Server desktop.

Step 2: Double-click the Sus10sp1.exe file to begin the installation process.

Step 3: On the Welcome screen of the Setup Wizard, click Next.

Step 4: Read and accept the End User License Agreement, and then click Next.

Step 5: Select Custom Installation to begin the installation phase.

Step 6: Click Next to accept file locations.

Step 7: Select the “English Only” Supported Languages radio button and click Next.

Step 8: Select the “Automatically approve new versions of previously approved updates” radio button and click Next.

Step 9: Click Install.

Step 10: Click Finish to complete installation.

The Software Updates Server Configuration Web page will now appear to allow for final configuration as shown in Figure 1. **Please note that this configuration screen can be launched by going to Start, Administrative Tools, Microsoft Software Update Services.**

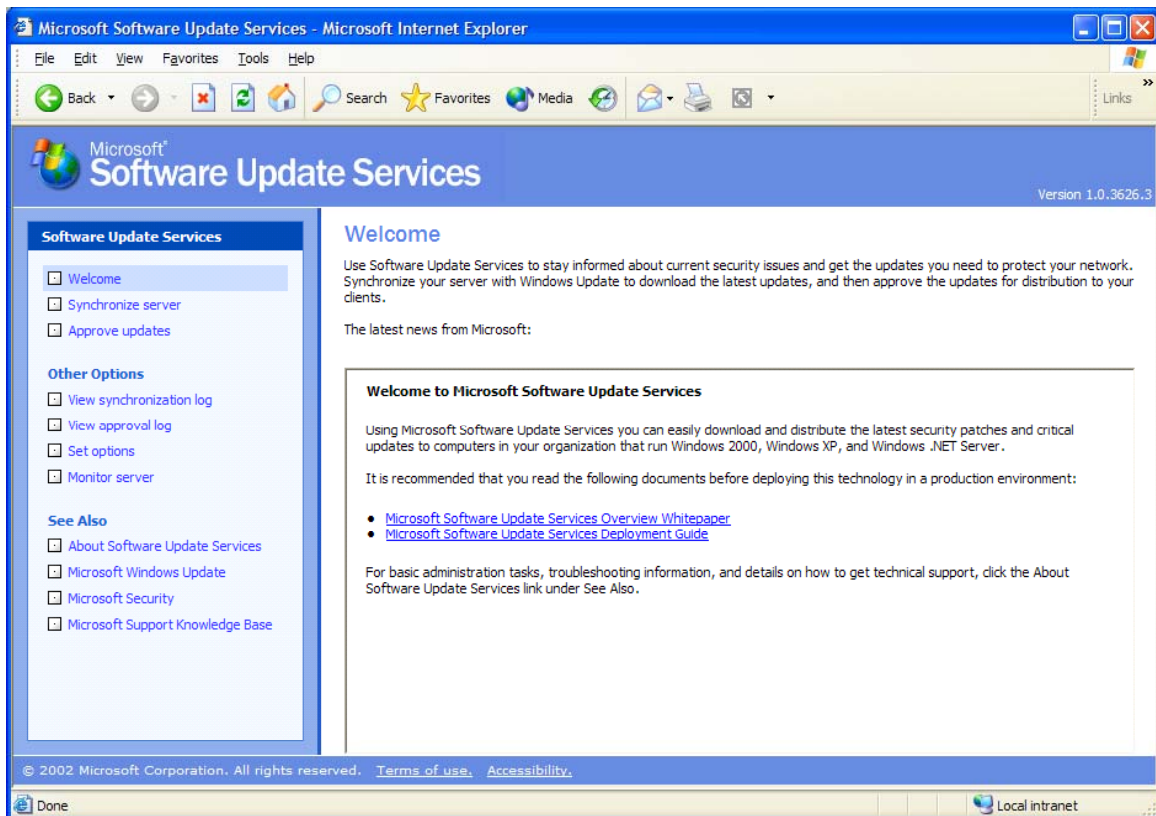


Figure 1: Software Updates Services Configuration Screen

Configuring Software Update Services

SUS options are set by clicking Set Options as shown in Figure 2.

Step 1: Select a proxy server configuration:

The SUS server does not need the proxy server configurations to be added, click **Do not use a proxy server to access the Internet**.

Step 2: Specify the name your clients use to locate this update server:

Your client computers running the Automatic Updates client will need to connect and download content from your server running SUS. The client computers will be able to locate the Intranet server running SUS using the **IP Address of the SUS Server**.

Step 3: Select which server to synchronize content from:

Districts will synchronize content on their server running from the KETS Enterprise SUS server. To synchronize content from another server running SUS or a manually-configured content distribution point, click **Synchronize from a local Software Update Services server**. In the text box, enter

10.1.68.50

After entering the 10.1.68.50, check the box that says **Synchronize list of approved items from this location (replace mode)**.

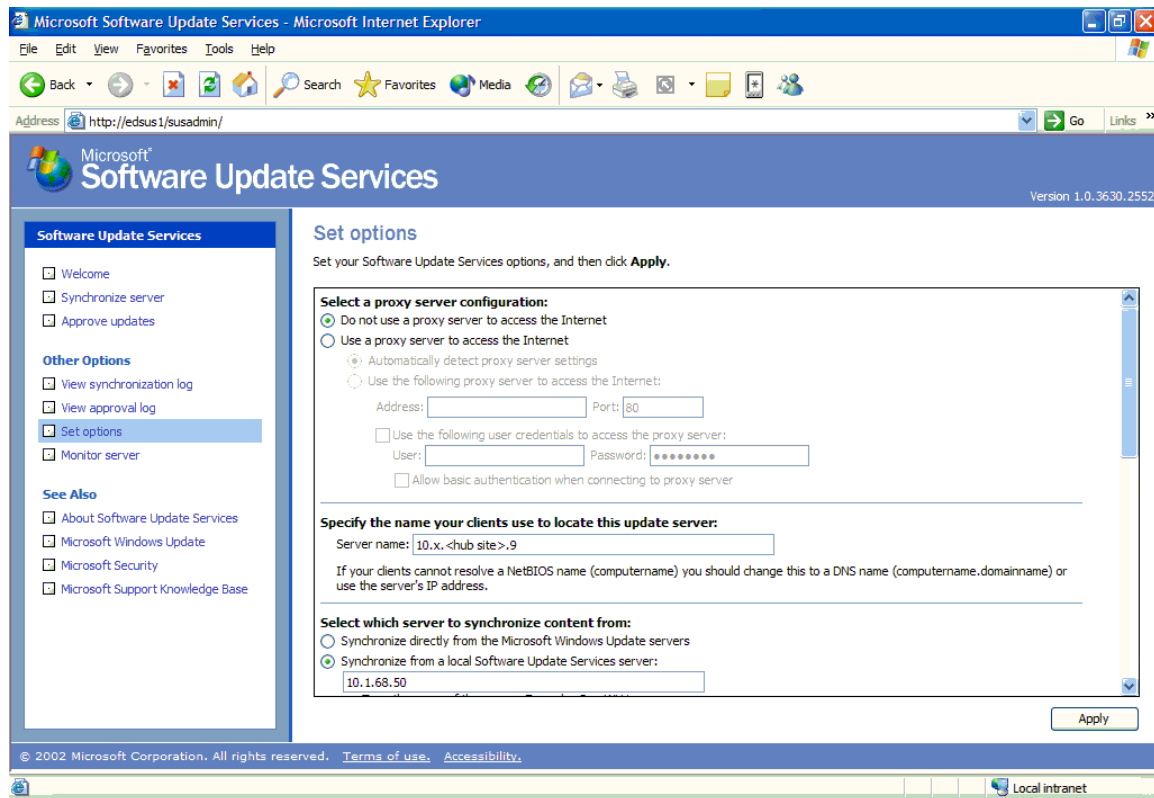


Figure 2: Set Options Screen

Please note that the remaining options were set during the initial installation wizard.

Step 4: Click Apply to save your configuration.

Step 5: Click Synchronize Server and configure synchronization settings as shown in Figure 3 and click OK.

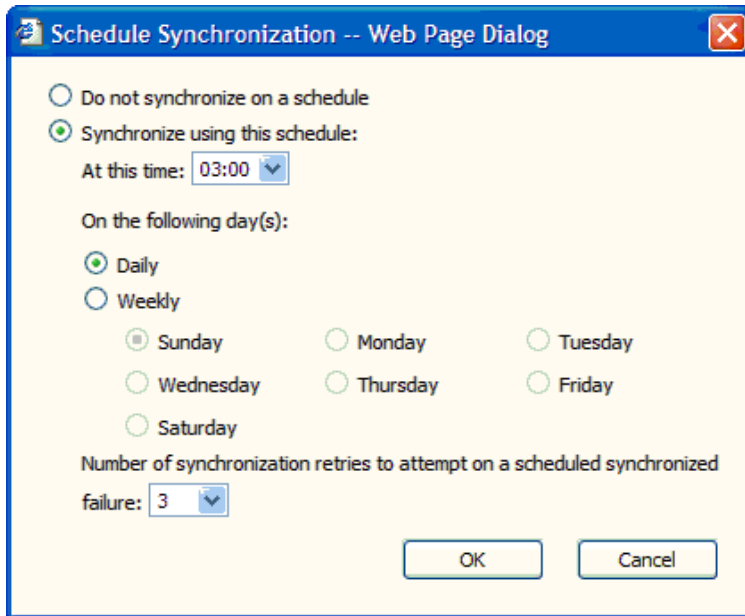


Figure 3: Synchronization Settings screen

Step 6: Click Synchronize Now to begin the synchronization process

Approving Updates

Updates are approved on the KETS Enterprise SUS server and are synchronized down to the district SUS server, so no manual approval is necessary at the district level.

Windows Update Client Software Installation

Some operating systems require the installation of Windows Update Client Software. These include Windows 2000 prior to SP3 and Windows XP prior to SP1. To accommodate this, create a share on your SUS server called **SUSCLIENT**. Ensure that the “Everyone” group has Read Permissions to the share. Download the client software from <ftp://ketsftp.k12.ky.us/windowsserver2003/wuau22.msi> and place the file into your newly created share.

Group Policy for Software Update Services

A group policy must be applied to the organizational units of the workstations and/or servers that are to have the windows critical updates delivered via the SUS server. A request for this policy should be made through the district's KETS Engineer specifying the following information:

1. IP Address of SUS Server
2. UNC path to Windows Update Client share (for example, \\E999SUS1\susclient)
3. Organizational Units to which the SUS Policy should be applied.

Other Items of Interest

1. Software Update Server will only provide updates and service packs to the following operating systems:

Windows 2000 Professional

Windows 2000 Standard Server

Windows 2000 Advanced Server

Windows XP Professional

Windows 2003 Web Edition

Windows 2003 Standard Server

Windows 2003 Enterprise Server

Support

If you have any questions or need assistance with this document please contact the KETS Help Desk either via phone – 866-538-7435 or email -- ketshelp@kde.state.ky.us.